Application No.: 10/090,553 Date of Response: 01/04/2005 Reply to Action of: 11/29/2004

LISTING OF CLAIMS

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This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A conductor assembly comprised of an implantable, a first flexible conductor and a first layer of nanomagnetic material disposed around said first flexible conductor, wherein:
 - (a) said first layer of nanomagnetic material has a tensile modulus of elasticity of at least about 15 x 10⁶ pounds per square inch;
 - (b) said nanomagnetic material has an average particle size of less than 100 nanometers; and
 - (c) said first layer of nanomagnetic material has a saturation magnetization of from about 200 to about 26,000 at least about 20,000 Gauss and a thickness of less than about 2 microns.
- 2. (Original) The conductor assembly as recited in claim 1, wherein said conductor assembly is flexible, having a bend radius of less than 2 centimeters.
- 3. (Original) The conductor assembly as recited in claim 1, wherein said first layer of nanomagnetic material has a saturation magnetization of at least 24,000 Gauss.
- 4. (Currently Amended) The conductor assembly as recited in claim [[43]], wherein said conductor assemblies assembly is comprised of 7 flexible conductors, each of which has a layer of said nanomagnetic material disposed around it.
 - 5. (Currently Amended) The conductor assembly as recited in claim [[43]], wherein a biocompatible sheath is disposed around said first flexible conductor and said first layer of nanomagnetic material.
 - 6. (Original) The conductor assembly as recited in claim 5, wherein a second layer of nanomagnetic material is disposed around said biocompatible sheath.
 - 7. (Currently Amended) The conductor assembly as recited in claim [[43]], wherein said first flexible conductor is a monfilar conductor,
 - 8. (Original) The conductor assembly as recited in claim 7, wherein said first flexible conductor is a multifilar conductor.
 - 9. (Original) The conductor assembly as recited in claim 8, further comprising a second flexible monofilar conductor.
- 35 10. (Currently Amended) The conductor assembly as recited in claim [[43]], wherein said first flexible conductor is coated with said first layer of nanomagnetic material.
 - 11. (Original) The conductor assembly as recited in claim 10, wherein said coating of said first layer of nanomagnetic material on said first flexible conductor is continuous.
 - 12. (Original) The conductor assembly as recited in claim 10, wherein said coating of said first layer of nanomagnetic material on said first flexible conductor is discontinuous.
 - 13. (Original) The conductor assembly as recited in claim 12, wherein said coating of said first layer of nanomagnetic material on said first flexible

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conductor is discontinuous along the axial dimension of said first flexible conductor.

- 14. (Original) The conductor assembly as recited in claim 9 wherein said multifilar conductor is disposed outside of said monfilar conductor.
- 5 15. (Original) The conductor assembly as recited in claim 10, wherein said multifilar conductor is disposed inside of said monofilar conductor.
 - 16. (Original) The conductor assembly as recited in claim 1, wherein said conductor assembly further comprises a centrally disposed pacing lead.
 - 17. (Original) The conductor assembly as recited in claim 1, further comprising a catheter connected to said first flexible conductor.
 - 18. (Original) The conductor assembly as recited in claim 1, further comprising an electrode connected to said first flexible conductor.
 - 19. (Currently Amended) The conductor assembly as recited in claim 1, further comprising electric circuitry connected to said first flexible conductor.
- 20. (Original) The conductor assembly as recited in claim 19, further comprising a second layer of nanomagnetic material disposed around said electric circuitry.